

## CDS Syllabus & Booklist For Combined Defense Services Exam

Broadly, the syllabus of CDS is divided into three sections

1. English
2. General Knowledge
3. Elementary Mathematics

### CDS Syllabus Mathematics

The topics covered in the CDS syllabus of mathematics are Algebra, Arithmetic, Geometry, Trigonometry, Mensuration and Statistics. Candidates preparing for the CDS exam can check the links given below to compliment their mathematics preparation.

1. [shortcut tricks for Squares and Cube Roots](#)
2. [Maths Tricks & Shortcuts for Competitive exams](#)

Important topics from each chapters to be covered for the exam are mentioned below-

<b>CDS Syllabus - Elementary Mathematics</b>	
Algebra	Basic Operations, Simple factors, Remainder Theorem, HCF/LCM, Theory of polynomials, Quadratic equations, Relation between its roots and coefficients (Only real roots to be considered), Simultaneous linear equations in two unknowns—analytical and graphical solutions, Simultaneous linear inequations in two variables and their solutions, Practical problems leading to two simultaneous linear equations or inequations in two variables or quadratic equations in one variable & their solutions, Set language and set notation, Rational expressions and conditional identities, Laws of indices
Arithmetic	Number System: Natural numbers, Integers, Rational and Real numbers. Fundamental operations: addition, subtraction, multiplication, division, Square roots, Decimal fractions Unitary method, Time and Distance, Time and work, Percentages, Simple and compound interest, Profit and loss Ratio and proportion, Variation, Elementary Number Theory: Division algorithm, Prime and composite numbers, Tests of divisibility by 2, 3, 4, 5, 9 and 11, Multiples and factors. Factorisation Theorem H.C.F. and L.C.M., Euclidean algorithm, Logarithms to base 10, Laws of logarithms and use of logarithmic tables
Geometry	Lines and angles, Plane and plane figures, Theorems on Properties of angles at a point, Parallel lines, Sides and angles of a triangle, Congruence of triangles, Similar triangles, Concurrence of medians and altitudes, Properties of angles, Sides and diagonals of a Parallelogram, Rectangle and square, Circles and its properties including tangents and normals, and Loci
Trigonometry	Sine $x$ , cosine $x$ , Tangent $x$ when $0^\circ < x < 90^\circ$ Values of $\sin x$ , $\cos x$ and $\tan x$ , for $x = 0^\circ, 30^\circ, 45^\circ, 60^\circ$ and $90^\circ$

	Simple trigonometric identities Use of trigonometric tables Simple cases of heights and distances
Statistics	Collection and tabulation of statistical data, Graphical representation frequency polygons, Histograms, Bar charts, Pie charts, etc., Measures of central tendency
Mensuration	Areas of squares, Rectangles, Parallelograms, Triangle and Circle. Areas of figures which can be split up into these figures (Field Book), Surface area and volume of cuboids, Lateral surface and volume of right circular cones and cylinders, Surface area and volume of spheres

Check out a few concept-based articles that will be helpful to cover up the maths syllabus of NDA conveniently-

1. [Alligations and Mixtures](#)
2. [Number Series](#)
3. [Quadratic Equations](#)
4. [Time and Work](#)

For more such articles on various mathematics topics, check the [Quantitative Aptitude](#) page linked here.

## CDS Syllabus - English

The questions in the English section of the CDS exam are designed to test the candidate's understanding of basic grammar, vocabulary and knowledge of English. Questions in this section are framed from the following topics:

<b>CDS Syllabus - English</b>
<ol style="list-style-type: none"> <li>1. Antonyms</li> <li>2. Sentence improvement</li> <li>3. Comprehension</li> <li>4. Synonyms</li> <li>5. Word substitution</li> <li>6. Ordering of sentences</li> <li>7. Spotting Errors</li> <li>8. Selecting Words</li> <li>9. Ordering of words in a sentence</li> </ol>

To start with the preparation of English syllabus of CDS exam refer to the links of relevant English language topics that are asked frequently in the examination:

- [List of One Word Substitutions](#)
- [Adjective Degree Of Comparison Rules](#)

- [List of Homophones/Homonyms](#)
- [List of Synonyms and Antonyms](#)
- [Active And Passive Voice Rules](#)

For more important topics on [English For Competitive exams](#), such as Precis and Letter writing format, rules and list of prepositions, articles, conjunctions etc. check the link provided.

Also, go through important questions and answers on English topics for practice and preparation.

- [One Word Substitution Questions & Answers](#)
- [Tenses Questions And Answers](#)
- [Direct & Indirect Speech Questions & Answers](#)
- Sentence Correction Questions and Answers

More question and answer articles on important topics of the [Verbal Ability](#) section can be found on the linked page.

## CDS Syllabus - General Knowledge

The General Knowledge section tests the knowledge candidate related to the current events and happenings around the world.. The questions in this section are included from the History of India, Geography of nature, and science as well. Topics that candidates should prepare in the General Knowledge section are given below.

### CDS Syllabus - General Knowledge

Current Awareness, Economics, Physics, Biology, Sociology, Chemistry, Award and honours, books and authors, History, Politics, Geography, Environment, Defence, Sport and Culture.

For the preparation this section important topics that candidates must go through are listed below:

- [List of Neighbouring Countries of India](#)
- [List of Highest Mountains in India](#)
- [List of Longest Rivers in the World](#)
- [Tennis Grand Slam Winners](#)
- [List Of Indian Ambassadors to Foreign Countries](#)
- [List of Indian Navy Chief Admirals](#)

More such topics on general awareness are given on the [Static GK](#) page, check the link provided. For the preparation of current affairs candidates can check the following links

- [Daily Current Affairs](#)
- [Daily News Analysis](#)

Knowledge of detailed syllabus and having good books handy is very important for a good preparation of CDS exam.

## CDS Booklist

Candidates after knowing the topic-wise CDS syllabus must be willing to know the CDS books they should refer to for effective preparation. Dedicated books for the CDS exam will help candidates have better knowledge of the subjects and ultimately bag a good score in the examination.

Hence, below mentioned are some of the important books for the CDS exam that candidates must keep handy.

#### **CDS Books - Mathematics**

1. Mathematics for CDS by RS Aggarwal
2. Quantitative Aptitude for Competitive examination by RS Aggarwal (S Chand Publication)
3. Quantitative Aptitude for examinations paperback by RS Aggarwal
4. Pathfinder for CDS by Arihant Publications

#### **CDS Books - General Knowledge**

1. Newspapers like, The Hindu, Indian Express, etc.
2. General Awareness by Manohar Panday
3. Manorama Yearbook
4. Magazines such as Pratiyogita Darpan, Competition Success Review (CSR), and Yojana

#### **CDS Books - English**

1. Wren and Martin - High School English Grammar & Composition
2. Word Power Made Easy by Norman Lewis
3. Objective General English by SP Bakshi